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AGRICULTURAL MEMORANDUM NO 450

Return to Capacity, Wheat & Fallow Acreages - WEST MIDLANDS

L P Smith

Mean return dates were found by taking sample stations for each part of the region (as per Tech Bull 24) and

Weighting w.r.t. total cereal acreage - Rc (where S1 = 1)
Weighting w.r.t. wheat acreage - Rw

and these were compared to the fallow acreage (F) and wheat acreage (W) respectively (in units of 1000 acres).

Results

Year	Rc	F	Rw	W	Estimated W
1959	0.0	33.8	0.0	180.9	167
1961	2.5	28.9	2.7	177.4	188
1966	4.1	26.7	4.4	214.3	218
1967	5.3	21.0	5.6	219.9	228
1968	5.8	18.1	5.8	239.4	233
1963	7.9	17.8	8.3	186.5	-
1964	8.1	14.8	8.3	224.7	227
1962	9.2	13.8	9.5	226.1	224
1960	9.3	16.7	9.3	205.0	214
1965	11.3	14.3	11.8	260.9	248
				Mean error	7.7 (3½%)

The correlation between Rc and F is - 0.95.

The formula used to estimate the wheat acreage is

$$166.4 + 4.7\,Rw + 4.4n$$

where n is number of years after 1959.

1963 was omitted owing to heavy winter snows. As spring conditions have been ignored and the total of spring sown wheat is unknown, the fit is not unsatisfactory.

The Rw values for 1969 and 1970 were 2.5 and 10.4 giving estimates

	Wheat acreage
June 1969	222,150
June 1970	263,680

Any comments or suggestions on this paper should be referred to the author.

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